

DESCRIPTIVE ABSTRACT

5 AUTOMATIC INSTALLATION AND PROCESS FOR TAKING MEASUREMENTS AND ACQUIRING SHAPES

10 The present invention has for its object an automatic
and autonomous installation for taking measurements and
acquiring three-dimensional shapes of subjects,
particularly in the form of a booth adapted for human
subjects, comprising at least one unit for projecting light
fringes and at least one unit for taking rapid views, as
15 well as a unit for controlling the installation and for
processing the acquired views.

20 Device characterized in that said units (4, 5) for
projection and taking views are gathered in one or several
acquisition heads (3) and in that said installation (1)
also comprises, on the one hand, several markers or fixed
reference points and several reference projection surfaces
(8), for example planes, surrounding the zone (9) for
acquisition and measurement receiving the subject (2) to be
25 acquired and located in the field of view of the unit or
each of the units (5) for taking views and, on the other
hand, a means (10) for generating a temporary wall of light
opposite said at least one acquisition head (3) or each of
said acquisition heads (3) relative to the acquisition zone
(9).

30 - Fig. 1B -